

City of Bethlehem Community Planning
APPLICATION FOR CERTIFICATE OF APPROPRIATENESS (COA)

Building address 321 W. 4th St. Bethlehem PA 18015
Owner of building Episcopal Ministries of D.B. Inc Phone 610-691-5602
Owner's email & mailing address TSargent@newbethanyministries.org 337 Wyandotte St 18015
Applicant Paul Thiessen Phone: 610-737-4286
Applicant's email & mailing address JPT Contracting@gmail.com 527 16th Ave Bethlehem
Street and Number City State Zip Code PA 18018

APPLICANT MUST ATTEND MEETING FOR CASE TO BE HEARD.
USE THE CHECKLIST ON THE BACK OF THIS APPLICATION TO ENSURE YOUR SUBMISSION IS COMPLETE.

Historic & Architectural Review Board – Application form, photographs, and drawings must be submitted by **12:00 Noon** on the last Wednesday of the month in order to be placed on the agenda for the next meeting.

South Bethlehem & Mount Airy Historic Conservation Commission - Application form, photographs, and drawings must be submitted by **12:00 noon** on the second Monday of the month in order to be placed on the agenda for the next meeting.

1. PHOTOGRAPHS - Photographs of your building and neighboring buildings **must accompany** your application.

2. TYPE OF WORK PROPOSED – Check all that apply. Please bring any samples or manufactures specifications for products you will use in this project.

<input checked="" type="checkbox"/> Trim and decorative woodwork	<input type="checkbox"/> Skylights
<input checked="" type="checkbox"/> Siding and Masonry	<input type="checkbox"/> Metal work
<input checked="" type="checkbox"/> Roofing, gutter and downspout	<input type="checkbox"/> Light fixtures
<input checked="" type="checkbox"/> Windows, doors, and associated hardware	<input type="checkbox"/> Signs
<input type="checkbox"/> Storm windows and storm doors	<input type="checkbox"/> Demolition
<input type="checkbox"/> Shutters and associated hardware	<input type="checkbox"/> Other _____
<input type="checkbox"/> Paint (Submit color chips – HARB only)	

3. DRAWINGS OF PROPOSED WORK – Required drawings **must accompany** your application. Please submit **ONE ORIGINAL AND TEN (10) COPIES OF DRAWINGS, PHOTOGRAPHS, APPLICATION FORM, AND ANY SPECIFICATIONS**

- Alteration, renovation, restoration (1/4 or 1/8"=1'0" scale drawings required IF walls or openings altered.)
- New addition (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)
- New building or structure (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)
- Demolition, removal of building features or building (1/4" or 1/8"=1'0" scale drawings: elevation of remaining site and site plan)
- A scale drawing, with an elevation view, is required for all sign submittals

4. DESCRIBE PROJECT – Describe any work checked in #2 and #3 above. Attach additional sheets as needed.

5. APPLICANT'S SIGNATURE Paul Thiessen **DATE:** 8/14/17

Certificate of Appropriateness Project Description
JPT Contracting
Paul Thiessen
321 West 4th Street
Bethlehem, PA 18015
Submitted August 14, 2017
For Review by the South Bethlehem Historic Conservation Commission

Currently in effect is a stop work order issued by Phillip Roeder on Wednesday August 2nd for the removal of original sashes and replacement with unapproved vinyl replacement windows. Mr. Roeder's visit to my job site prompted me to apply for a certificate of appropriateness as well as permits relating to all other work happening inside and outside the house.

This document presents to the Board the problems and proposed solutions regarding the maintenance of the property. With non-historic elements already existing such as stucco, aluminum capping, and aluminum storm windows, the proposed solutions offer a similar combination of restoration and modern standard repair.

My proposal to the Board is to allow me to use the already purchased, non-refundable, high-quality and visually appealing vinyl windows, rather than restore the existing ones or purchase new wooden windows, at a loss, which are similar in style and quality anyway. The removal of the aluminum capping, leveling of the sills, installation of decorative headers to create level openings will hopefully inspire a decision to allow the vinyl replacements. There are 32 windows in total.

Roofing, Gutter and Drainage

1. Existing Issues

A. Gutter and Downspouts

- All of the rain water shed by the roof is currently led through downspouts that discharge on the West side of the property, which is highest in elevation.
- Water discharged from the downspouts at the front and back of the property is constantly making its way into the basement.
- Existing 3" steel gutter which pitches to the West / High side of the building is rusting and a leak in the gutter is causing water to splash excessively on the front wall, causing stains.

2. B. Sidewalk and Curb

- The storm water discharges onto the sidewalk and toward Shawnee St. but the house is not sealed to the sidewalk at both Shawnee and W. 4th Streets nor is the curb sealed to the road surface at Shawnee St.
- The curb shows significant deterioration
- Expansion joints in the curb at the SouthWest corner of the property have widened and allow a significant amount of water into the ground next to the foundation. This corner of the building has shown the worst structural damage.

2. Proposed Solutions

A. Gutter and Downspouts

- Installation of a new 5" white aluminum half-round gutter at the front of the property, pitched toward the East / Low side of the building to replace the existing steel gutter and

- removal of stains caused by splashing
 - Relocation of all downspouts to discharge into a drainage ditch on the East side of the building.
- B. Trench Drain (Curtain Drain)
- The main length of pipe would be set level in the yard to evenly release water into the ground below the surface, rather than gathering it at one point.
 - The 3" corrugated downspouts would transition to vertical lengths of solid 4" PVC pipe ending just above grade.
 - These four vertical sections of pipe would connect to sch 20 perforated drainage pipe in the stone-filled trench using solid 4" sch 40 PVC pipe and sch 40 fittings.
 - In the event that the trench and piping fill with water, a pop-up drain set lower in elevation than the vertical pipe ends would allow water to evacuate onto the sidewalk. The pop up drain and vertical pipe against the garage would serve as clean outs for the main pipe.
 - The main sewer drain exits the house in the direction of this proposed trench. Further exploration is required to determine the location and condition of the lateral sewer pipe. Further research may then be required to determine any effects the drainage trench may have on the sewer pipe.
- C. Sidewalk and Curb
- The curb and sidewalk should be patched with a high strength fast setting mortar such as Planetop XS. (see data sheet)

Windows, Doors and Associated Hardware

1. Existing Issues

A. Window Frames

- Structural damage to the framing causing severe settling of walls has produced greatly distorted window frames. All of the first floor windows were locked using holes drilled through both sashes and "hand-tight" nails connecting them; only pulling out the nails would allow the sashes to move.
- The original sashes in these windows were no longer functional. The sashes were cut at an angle to fit in these openings and, jeopardizing the stability of the sash and the safety of the user.

B. Storm Windows

- Many of the storm windows were affected and created unsafe conditions while attempting to operate them.

2. Proposed Solution

A. Vinyl Window Choice

- Restoration of the existing windows would require excessive reconstruction of the window frame, jeopardizing surrounding masonry. Replacement of the windows appears to be the most considerate option.
- Replacement options include one of three choices: composite, wood with aluminum or vinyl cladding, or vinyl. Vinyl is argued to be the less favorable option than aluminum clad windows, due to many lower quality units needing to be replaced again in 15 -20 years. Also, the vinyl window can often be in greatly contrasting appearance to original sashes.

When New Bethany Ministries asked me to replace the windows in their property to be used for their affordable housing program, it was one of many tasks to be carried out at the property. Whenever possible, I try to take a holistic approach to repairing a property, and prioritizing costs is part of that overall design. So while I didn't go with the cheapest vinyl window quote, I did choose vinyl over the 60% more expensive wooden units. This allowed funds to be available to more important aspects like addressing structural repairs and moisture control.

- The proposed Alside brand windows are of a higher quality than many vinyl windows with performance enhancing features such as insulated sashes filled with argon and low e glass. They have a transferable lifetime warranty, indicating the manufacturer is confident in the longevity of their product. (see data and warranty sheets)
- B. Storm Window Unnecessary
- The proposed Alside brand windows have a raised, beveled screen channel which closely resembles the look of a storm window.
 - Many of the neighboring houses have had storm windows installed over the original sashes as well as vinyl replacement windows.

Siding and Masonry

1. Existing Issues
 - A. Above and Below windows
 - Visually, the greatest concern is the out-of-level exterior sills and window tops where the stucco (Brickote) was installed in a straight vertical brick pattern directly over the window opening. It is these two locations, above and below the windows, that display the greatest need for repair to the stucco.
 - Many of the neighboring houses have painted wood headers over the windows.
 - B. Cedar Siding
 - On the bumped-out portion of the East wall, the paint on the cedar siding is flaking off.
2. Proposed Solution
 - A. Above and Below the windows
 - Installation of 1/2" thick smooth hardi-backer, set into the existing stucco to be flush and level, replicating the look of the neighboring houses' painted wooden window headers.
 - Patching of the Brickote above it for a seamless brick appearance.
 - B. Cedar Siding
 - The loose paint should be scraped, the siding primed with high quality oil based primer and a high quality exterior latex enamel paint be applied to all wood surfaces

Brickote patching will consist of SpecMix Fiber Base coat and Federal White Portland Cement Mixed at a 3:1 ratio of Jersey Sand to Portland (see data sheets)

Trim and Decorative Woodwork

1. Existing Issues
 - Aluminum capping currently covers the trim and sill of all the windows with the exception of one attic window on the North wall. As a result of movement and sealant failure, many of the wooden sills and trim are rotted.
2. Proposed Solution
 - Replacement all rotted wood with similar hardwood as needed.
 - Application of high quality acrylic enamel exterior paint to all wood sills



Planitop XS[®]

**One-Component, Fast-Setting,
Extended-Working-Time,
Vertical and Overhead
Repair Mortar**



DESCRIPTION

Planitop XS is an extended-working-time variation of *Planitop X*. Shrinkage-compensated, fiber-reinforced, polymer-modified and containing a proprietary corrosion inhibitor, *Planitop XS* features *Planitop X*'s outstanding workability and versatility. Ideal for a wide variety of vertical and overhead concrete repairs, *Planitop XS* can be applied from featheredge to 4" (10 cm) per lift. *Planitop XS* dries to a light gray color, blending well with most concrete surfaces.

FEATURES AND BENEFITS

- Easy to use, requiring only the addition of potable mixing water
- Formulated with extended working time (double the working time of *Planitop X*) and fast-curing, reducing downtime and expediting return to service
- Excellent compressive and flexural strength
- Outstanding sculptability after initial set
- The high density (with very low coulombs) provides greater resistance to chloride attack and carbonation.
- Strong bond to existing properly prepared concrete
- Shrinkage-compensated
- Adding *Planicrete[®] AC* results in improved compressive and bond strength as well as improved resistance to freeze/thaw cycling and de-icing salts. For details, consult the Technical Data Sheet (TDS) for *Planicrete AC* or MAPEI's Technical Services Department.
- Outstanding workability, easily blending into the concrete surface to help disguise the repaired area
- Light gray color resembles originally placed concrete.

INDUSTRY STANDARDS AND APPROVALS

- Meets or exceeds requirements for ASTM C928 Type R2 mortar

LEED Points Contribution

LEED Points

MR Credit 5, Regional Materials* Up to 2 points

** Using this product may help contribute to LEED certification of projects in the category shown above. Points are awarded based on contributions of all project materials.*

WHERE TO USE

- For repairing all vertical and overhead concrete surfaces, such as tunnels, bridges, overpasses, retaining walls, beams, building facades, parking garages, ceilings and balconies
- For repairing defects in concrete surfaces, such as the filling of honeycombs, voids and cavities
- For reconstructing architectural features requiring a moldable and sculptable mortar
- For small repairs (≤ 0.5 cu. ft. [0,001 m³]) with light foot traffic

LIMITATIONS

- Do not install over substrates containing asbestos.
- Other than *Planicrete AC*, do not add additives, cement or aggregates to *Planitop XS*.
- Use at temperatures between 41°F and 85°F (5°C and 29°C). For temperatures below or above this range, use cold- or hot-weather guidelines from the American Concrete Institute (ACI).



Planitop[®] XS

- When using *Planibond[®] 3C* as a bonding agent between new or existing concrete and *Planitop XS*, allow 24 hours before placement of *Planitop XS*.
- Use only unopened, undamaged bags of *Planitop XS*.
- Do not attempt to re-temper *Planitop XS* after it has been mixed.
- Do not use solvent-based curing compounds.
- *Planitop XS* is primarily used as a vertical/overhead repair mortar. However, it can be used for small horizontal repairs (≤ 0.5 cu. ft. [0,001 m³]) with light foot traffic.

SUITABLE SUBSTRATES

- Properly prepared, structurally sound, fully cured concrete substrates (at least 28 days old)

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- Ensure that all substrates are structurally sound, stable, clean and free of dust, oil, grease, paint, tar, wax, sealers, curing compounds, form release agents, primers, laitance, loose particles and any foreign substance or debris that could reduce or impair adhesion.
- Mechanically roughen the surface to attain an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of $\geq \#5$, ensuring that at least 3/4" (19 mm) clearance exists behind corroded reinforcing steel. Mechanical roughening includes abrasive blasting, water-jetting and other engineer-approved mechanical means.
- Reference ICRI Technical Guideline #310.1R-2008 as well as ACI RAP Bulletins 6 and 7 for repair geometry, surface preparation and material application details.
- Clean the exposed metal in accordance with The Society for Protective Coatings (SSPC) guidelines and coat with *Mapofer[™] 1K* or *Planibond 3C*.
- Ensure that the concrete substrate is saturated surface-dry (SSD) before installation of *Planitop XS*. The concrete surface should be free of any standing water.

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

Mixing ratio with water: 1 U.S. gal. (3,79 L) of water per 50 lbs. (22,7 kg) of *Planitop XS*.

1. Into a clean container, pour 3 U.S. qts. (2,84 L) of cool, clean potable water.
2. Add 50 lbs. (22,7 kg) of *Planitop XS* to the water slowly and continuously, while mixing with a low-speed drill and box- or propeller-type mixing paddle. Add the remaining 1 U.S. qt. (0,95 L) of water, as needed.

3. Mix for 3 to 4 minutes to obtain a lump-free, homogenous consistency. *Planitop XS* has a working time of more than 20 minutes.

PRODUCT APPLICATION

Read all application instructions thoroughly before installation.

1. Application should take place as soon as *Planitop XS* is mixed. First, apply a scrub or bond coat of *Planitop XS* onto the SSD concrete surface. The scrub coat should be applied thinly (at about 1/8" [3 mm]) and worked thoroughly into the surface profile to ensure full coverage of the area to be repaired. Use a trowel to immediately begin the build process, pressing the material firmly around all pretreated reinforcement. Apply up to a maximum thickness of 4" (10 cm). Overhead repairs may require multiple lifts of no more than 2" (5 cm) per lift.
2. If successive lifts are to be completed, leave the first lift rough and immediately score the surface (about 1/4" [6 mm] deep) with the margin trowel edge in a continual "X" or "H" pattern (crosshatching). Allow the *Planitop XS* to take an initial set (about 40 minutes at 73°F [23°C] and 50% relative humidity). Dampen the surface lightly with potable water and again install a scrub coat followed by a build coat. Allow the *Planitop XS* to set again. Avoid building the material in multiple lifts that exceed 8" (20 cm).
3. Sculpting and molding of the repair area should begin as soon as the *Planitop XS* initially sets. Use the margin trowel edge to shave off excess material. Using a dampened sponge, gently rub the repair area in a circular motion to remove surface imperfections and blend the repair with the original substrate. Do not overwet the sponge or repair area during the finishing process.
4. Always consult with the project engineer before placement of *Planitop XS* regarding any need for additional pinning or reinforcement.

CURING

1. During curing, protect *Planitop XS* from high wind conditions, and keep substrate and ambient temperatures at between 41°F and 85°F (5°C and 29°C). For placement and curing of *Planitop XS* in temperatures below or above this range, refer to ACI guidelines for cold- or hot-weather installations.
2. After finishing, cure larger repair areas by misting them for the first 4 to 6 hours after placement of *Planitop XS*, or use a water-based curing compound as referenced in ASTM C309. Do not use a solvent-based curing agent.

CLEANUP

Fresh *Planitop XS* is easily removed from tools and equipment with water. Cured *Planitop XS* must be mechanically removed.



Shelf Life and Product Characteristics (before mixing)

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a dry and covered area
Physical state	Powder
Color	Light gray
Dry-solids content	100%

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

Mixing ratio	1 U.S. gal. (3,79 L) of water per 50 lbs. (22,7 kg) of <i>Planitop X</i>
Working time	20 minutes
Initial set	> 40 minutes
Final set	< 60 minutes

Product Performance Properties*

Laboratory Tests	Results	
Tensile bond strength — ASTM C1583 (CSA CAN/A23.2-6B) (failure in concrete substrate)		
28 days	> 290 psi (2 MPa)	
Compressive strength — ASTM C109		
1 day	> 3,000 psi (20,7 MPa)	
7 days	> 4,000 psi (27,6 MPa)	
28 days	> 5,000 psi (34,5 MPa)	
Flexural strength — ASTM C348		
1 day	> 500 psi (3,45 MPa)	
28 days	> 800 psi (5,52 MPa)	
Tensile strength — ASTM C307		
28 days	> 450 psi (3,10 MPa)	
Modulus of elasticity (MOE) — ASTM C469		
28 days	3.23 x 10 ⁶ psi (22,3 GPa)	
Permeability to chlorides — ASTM C1202		
28 days	Very low — 100 to 1,000 coulombs	
Scaling resistance — ASTM C672		
28 days	0 loss, no scaling (50 cycles)	
Freeze/thaw resistance — ASTM C666		
28 days	> 98.5% (300 cycles)	
Slant/shear bond strength — ASTM C882 (modified)		
1 day	> 1,000 psi (6,90 MPa)	
28 days	> 1,500 psi (10,3 MPa)	
Volume change — Exceeds ASTM C928 requirements	ASTM C928 specification	<i>Planitop XS</i> typical value
28 days, dry-cured	< -0.15%	< -0.06
28 days, wet-cured	< +0.15%	+0.04%

* All tests were performed at 73°F (23°C) and 50% relative humidity with a mixture of 1 U.S. gal. (3,79 L) of water per 50-lb. (22,7 kg) bag of *Planitop XS*. An increase in the water content will alter listed properties.

CSI Division Classifications

Cast-in-Place Concrete	03 30 00
Cementitious Decks and Underlayment	03 50 00
Concrete Restoration and Cleaning	03 90 00

Packaging

Size
Bag: 50 lbs. (22,7 kg)
Pail: 50 lbs. (22,7 kg)

Approximate Coverage** per 50 lbs. (22,7 kg)

Yield (ASTM C138)
0.46 cu. ft. (0,013 m ³)

** Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and setting practices.

Planitop[®] XS



RELATED DOCUMENTS

MAPEI's Technical Bulletin "The Impact of Cold Weather on Repair Materials"	010810-TB*
Vertical and Overhead Spall Repair by Hand Application	ACI RAP Bulletin 6
Spall Repair of Horizontal Concrete Surfaces	ACI RAP Bulletin 7
Standard Specification for Curing Concrete	ACI 308.1
Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion	ICRI Technical Guideline #310.1R-2008 (formerly #03730)

* At www.mapei.com

Refer to the SDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

We proudly support the following industry organizations:



MAPEI Headquarters of the Americas

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) /
(954) 246-8888

Technical Services

1-800-992-6273 (U.S. and Puerto Rico)
1-800-361-9309 (Canada)

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

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For the most current **BEST-BACKED™** product data and warranty information, visit www.mapei.com.

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Window Systems Lifetime Limited Warranty

WITH TRANSFERABILITY PROVISIONS

Alside, the Manufacturer of Alside Vinyl Window Systems, makes available to the Original Purchaser / Present Property Owner the Lifetime Limited Warranty, warranting the Alside Vinyl Window System for as long as the Property Owner shall own and live in the property at the stated property address, from date of window or patio door installation, under normal use and service, against specified defects in material and workmanship of the Alside Vinyl Window System, occurring as a direct result of the manufacturing process, and subject to the terms and conditions of this Limited Warranty.

Lifetime Limited Warranty - Vinyl Sash Frame and Vinyl Main Frame
For as long as the Original Purchaser / Present Property Owner shall own and live in the property, the rigidized vinyl in the window/patio door sash frames and in the window/patio door main frame of the basic window unit will be warranted against cracking, warping, peeling, flaking, blistering or corroding.

Lifetime Limited Warranty - Moving Parts of the Basic Window Unit
The moving parts of the basic window unit, consisting of the balance to raise and lower the window sash or the brass wheels to slide the sash, and locking mechanism to secure the window or patio door sash, are all warranted for as long as the Original Purchaser / Present Property Owner shall own and live in the property.

Lifetime Limited Warranty - Fiber Glass Screening and Screen Frame
The fiber glass screening material used in the window/patio door screen and the material for manufacture of the screen frames are warranted against manufacturing defects resulting in rotting or rusting, for as long as the Original Purchaser / Present Property Owner shall own and live in the property. Should such a manufacturing defect occur, the Manufacturer agrees to furnish new screen material or new screen frame material to the Property Owner, transportation charges payable by the Property Owner.

Lifetime Limited Warranty - Insulating Glass Unit
The hermetically sealed insulated glass unit of the Alside Vinyl Window/Patio Door System is warranted for as long as the Original Property Owner shall own and live in the property from date of window installation against development of material obstruction of vision occurring from manufacturing defects, resulting from film formation or dust collection between the interior glass surfaces, caused by failure of the hermetic seal, under conditions of normal use and service.

Labor Provisions

During the one (1) year period from date of window installation, the Manufacturer will provide the labor at no charge to the Original Purchaser / Present Property Owner for repair or replacement of the warranted window part or component, under the provisions of this Limited Warranty.

Except as to labor on repair or replacement for one (1) year on warranted work following date of window installation, this Limited Warranty does not include any additional labor costs and the Manufacturer will not be responsible after the first year for any costs incurred in the removal or replacement, installation or reinstallation of the window or of any part or component of the window, or

of any repaired or replacement part or component furnished by Manufacturer under this Warranty for the window. This warranty does not cover breakage of glass or torn screening from any cause whatsoever.

Alside Vinyl Window Systems Limited Warranty Transferable to Successor Owner

This Limited Warranty for the Alside Vinyl Window System is transferable one time by the Original Purchaser to the successor owner of the property, within the first thirty (30) years from date of window installation. Upon transfer, the transferred warranty period shall be limited to the unexpired remaining portion of such thirty (30) years from date of window installation, and shall not be further transferable.

In the event of property transfer, or hermetic seal failure, the subsequent owner will be responsible for charges based on the following schedule:

0 - 10 Years	No Charge
11 - 15 Years	50%
16 - 20 Years	70%
21 - 25 Years	80%
25+ Years	90%

The basis for computing the cost of material for repair or replacement shall be current market prices.

Property Owner Claim Procedure and Other Warranty Provisions

Any claims for defects under this Limited Warranty should be made in writing to Alside, P.O. Box 2010, Akron, Ohio 44309, Attention: Window Warranty Services, promptly after discovery of the claimed defect, describing the defect claimed and referring to this Warranty and date of window installation, together with the name of contractor, and proof of purchase, proof of property ownership and transfer info as requested. Allow a reasonable time for inspection purposes if determined to be necessary.

If the windows do not conform to this Warranty and any such manufacturing defect occurs within the time period specified, according to the provisions of this Warranty, then Alside agrees, at its option, to repair or replace the defective part or component of the window free of charge, which shall be shipped to Alside, transportation charges prepaid, or upon prepayment of any applicable prorated amount then due from the Original Purchaser / Present Property Owner. The Property Owner will be responsible for return transportation charges back to the property location.

Replacement parts or components furnished by Manufacturer under this Warranty will have the standard color available at that time. A color variance may occur between the new replacement part or component in comparison to the original window due to weathering exposure and would not be indicative of defects in the part or component.

Alside reserves the right to discontinue or change any Alside Vinyl Window System as manufactured. If the part or component of the window originally installed is not available and Alside determines to make replacement, Alside shall have the right to substitute a compatible part or component, apportioned when pro rata basis applies over the warranted time period for usage to refund date.

The Manufacturer does not warrant installation nor defects caused by installation. This Warranty covers only the specific manufacturing defects as specified herein. This Warranty does not cover any other damages or material failure including, but not limited to, normal weathering of sash frames and main frame, and screen and screen frame, oxidation, accidents or intentional damage, or fire, flood, windblown objects, hail, lightning, earthquake or other Acts of God, chemical pollutants, chemicals, brick wash, mildew, negligent maintenance, fading, misuse or abuse, building settlement or structural defects, or if subjected to stresses resulting from localized heat sources which cause excessive temperature differentials over the glass surfaces or edges, or any other causes or occurrences beyond the Manufacturer's control. This Warranty does not



apply if the windows are painted, varnished or coated with any other substance. Normal weathering may cause any surface to oxidize, chalk or accumulate surface dirt or stains due to varying exposures to sunlight, weather and atmospheric conditions. The geographic location, the quality of the atmosphere and other local factors in the area, over which the Manufacturer has no control, contribute to the severity of these conditions.

Caulking may be necessary on some installations to seal the frames or trim package against water and/or air infiltration. Caulking is considered a maintenance issue and is the responsibility of the homeowner. It is not considered part of the product and is not covered under this warranty.

Condensation on windows may occur as the natural result of humidity within the house or building area and changes in interior / exterior temperatures, and does not indicate a defect in the window. This Warranty does not cover condensation nor frost or freezing from condensation on the windows.

This Warranty is limited to the Manufacturer's furnishing repaired or replacement parts or components of the window, free of charge, within the time period specified, or as applicable, upon payment in advance of any prorata amount then due from the Original Purchaser / Present Property Owner, according to the provisions of this Warranty, on the Manufacturer receiving from the Property Owner any such claimed defective parts or components of the window, and with return transportation charges for any repaired or replacement window part or component being at Property Owner's responsibility, as provided.

THE WARRANTY STATEMENTS CONTAINED IN THIS LIMITED WARRANTY SET FORTH THE ONLY EXPRESS WARRANTIES EXTENDED BY ALSIDE FOR THE WINDOWS, IN LIEU OF ALL OTHER WARRANTIES, AND THE PROVISIONS OF THIS WARRANTY SHALL CONSTITUTE THE ENTIRE LIABILITY OF ALSIDE AND THE PROPERTY OWNER'S EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY. ALSIDE SHALL NOT BE LIABLE TO THE PROPERTY OWNER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THE WINDOWS.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state.

Commercial Applications

If the building in which the Alside Vinyl Window System is installed is owned by an entity other than an individual resident owner, whether by a corporation, partnership, an unincorporated association, or by a government or public entity, including without limitation, a church or school, then the warranty period shall be a Thirty (30) Year Prorated Limited Warranty from the date of window installation, applicable to all window parts and components, under the prorated basis of this Warranty, with labor at no charge to Property Owner on warranted work for a one (1) year period, from the date of window installation, and subject to all other terms and conditions of this Limited Warranty.

Alside Vinyl Window Systems are
manufactured and warranted by:
Alside, P.O. Box 2010, Akron, Ohio 44309.
CERTIFICATE AWS - 01

Alside



Browse features, colors and energy efficiency options for your new windows and doors.

[Learn More](#)

[\(/products/windows-patio-doors/features-and-options/\)](/products/windows-patio-doors/features-and-options/)

Mezzo[®] Energy-Efficient Vinyl Windows Aesthetics and Technology . . . Redefined



About

Mezzo® Windows from Alside feature a thermally optimized narrowline frame and sash with a dual-pane insulated glass solution designed to meet stringent ENERGY STAR® requirements. The elegant narrowline construction ensures maximum daylight visibility while advanced technological reinforcements deliver dependable strength while minimizing energy transfer.

You'll sleep well knowing that Mezzo's enhanced forced-entry hardware and modernized screen and bulb design provide greater protection against insect and other undesirable intrusions.

Strong, durable and weathertight, with the custom beauty you've come to expect from Alside, the Mezzo Window is in a class by itself – an affordable window with performance power above and beyond the rest. Plus, our impressive Lifetime Limited Warranty* delivers the peace of mind you would expect from an industry leader.

**See printed warranty for details*

Features and Benefits

- The EdgeForce™ low-profile frame and sash creates an expanded glass area while internal chambers increase structural integrity, rigidity and energy efficiency
- CoreFX™ composite reinforcement helps reduce the transfer of energy while strengthening meeting rails and allowing for secure mounting of hardware
- Defense-Tek™ end-of-throw cam shift locking action delivers increased strength and protection
- Forecaster™ quickly directs water runoff, keeping the exterior of the window clean and attractive
- The HP3™ telescoping sill dam delivers protection from air and water infiltration, increases structural stability and enhances beauty
- Gatekeeper™ interlocking sash-to-sill technology delivers a unified wall of strength
- The Ocular™ screen bulb seal eliminates light penetration between the screen and frame and aids in easy screen installation and removal

Product Availability

This product is available nationwide.



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Photos



FEDERAL WHITE CEMENT

ABOUT US

PRODUCTS

SUSTAINABILITY

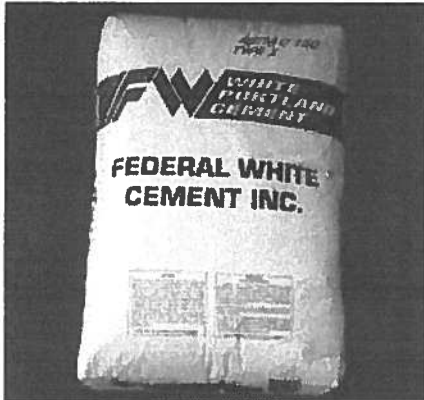
PROJECTS

CONTACT US

HOME

Technical Data Sheet

ASTM C-150



PRODUCT NAME:

**White Portland Cement:
Federal
White Type I
ASTM Designation C-150**

SDS

MANUFACTURER:

**Federal White Cement
P.O. Box 548
Woodstock, Ontario
Canada
N4S 7Y5**

Phone: 800-265-1806

Phone: 519-485-5410

Fax: 519-485-5892

DESCRIPTION:

Federal White Type I Cement is a true portland cement manufactured with selected raw materials to insure negligible amounts of iron and manganese oxides so as not to produce the gray color of normal portland cement.

INSTALLATION:

Architect should approve the color and surface texture of samples submitted by the contractor or precaster. Contact Federal White Cement for further information or assistance.

MAINTENANCE:

Concrete and other products manufactured with Federal White Cement should require no additional maintenance if designed and constructed following proper and accepted procedures.

TECHNICAL DATA:

Federal White Portland Cement is manufactured to conform to all current requirements of ASTM Designation C-150.

See table for physical properties.

BASIC USE:

Federal White Cement can be used for all types of architectural or structural concrete construction where a whiter or brighter color may be needed for aesthetic or safety reasons. Such application as pre-cast panels and systems, cast-in-place, masonry units, tilt-up panel systems, roofing tiles, terrazzo floors, highway median barriers, tile grout, swimming pools, stucco, colored masonry products, cement paints and coatings and ornamental precast concrete items lend themselves to using Federal White Cement. Federal White Cement may also be used to satisfy low alkali requirements.

AVAILABILITY AND COST:

Federal White Cement can be shipped to most destinations in the United States and Canada from our manufacturing plant or terminal. Cement shipments can be made by rail or truck in bags or in bulk.

The price, F.O.B. destination, of Federal White Cement will be furnished by the manufacturer upon request.

WARRANTY:

Federal White Type I Portland Cement complies with the current ASTM C-150. Federal White Cement makes no guarantee or warranty, expressed or implied, including, without limitation, warranties of fitness or merchantability with respect to this product.

TECHNICAL SERVICES:

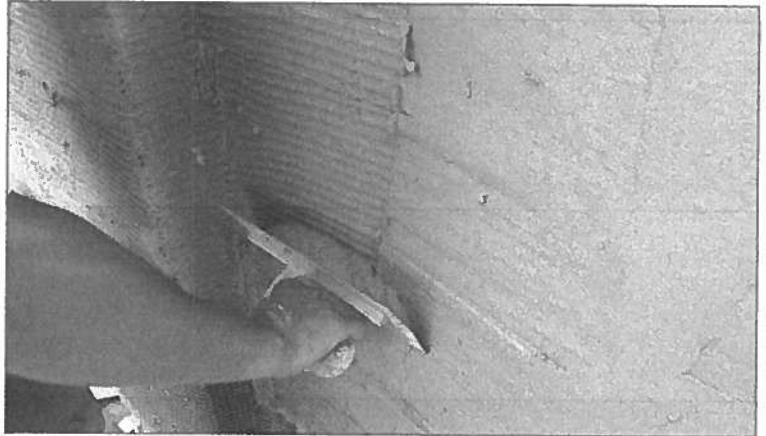
Technical service, consultation, and additional product information are available by contacting Federal White Cement.

PHYSICAL PROPERTY	FEDERAL WHITE Typical Type I	ASTM C - 150 Specification Type I
Fineness:		
Specific Surface (sq. m / kg)	400	280 minimum
Setting Time - Vicat		
Minutes	120	
not less than		45
not more than		375
Air Content %	8	12 maximum
Compressive Strength, psi(MPa)		
1 day	2000 (13.8)	--
3 day	3900 (26.9)	1740 (12.0) minimum
7 day	4800 (33.1)	2760 (19.0) minimum
28 day	6500 (44.8)	--



1. Product Name

- SPEC MIX® Fiber Base Coat (FBC Preblended Stucco)
URL: [Fiber Base Coat](#)
- SPEC MIX Scratch and Brown
URL: [Scratch and Brown](#)
- SPEC MIX Scratch & Brown Fiber Reinforced Stucco
URL: [S&B Fiber Reinforced Stucco](#)
Videos: [SPEC MIX Preblended Stucco](#)



Application of proprietary, preblended, shrinkage compensated basecoat

2. Manufacturer

SPEC MIX, Inc.
1230 Eagan Industrial Road
Suite 160
Eagan, MN 55121
Phone: (888) 773-2649
(651) 994-7120
Fax: (651) 454-5315
E-mail: info@specmix.com
Web: www.specmix.com

3. Product Description

Basic Use

SPEC MIX Fiber Base Coat Stucco (FBC)

SPEC MIX Fiber Base Coat is a code-approved, high performance, fiber-reinforced, premixed stucco basecoat for commercial and residential applications. Designed to minimize crazing and cracking, it can be applied, by trowel or gun, to $\frac{3}{8}$ – $\frac{1}{2}$ inch (9.5–12.7 mm) and $\frac{3}{4}$ – $\frac{7}{8}$ inch (19–22.2 mm) thick stucco, One-Coat and traditional Scratch and Brown applications. Used in accordance with its code report, SPEC MIX Fiber Base Coat can be installed for 1-hour fire-resistive wall assemblies and for non-combustible construction.

SPEC MIX Scratch and Brown Stucco

Scratch and Brown is a dry premixed stucco base coat for commercial and residential applications. It can be used as the scratch or brown coat in a 3-coat application and is formulated to be applied by trowel or gun.

SPEC MIX Scratch & Brown Fiber Reinforced Stucco

SPEC MIX Scratch & Brown Fiber Reinforced Stucco is engineered and preblended to provide superior consistency

and durability when used as the scratch and/or brown coat in three-coat wall systems. SPEC MIX Scratch & Brown Fiber Reinforced Stucco is a custom blend of cementitious materials, additives, aggregates and alkali resistant fibers meeting ASTM C 926 requirements. SPEC MIX Scratch & Brown Stucco Fiber Reinforced Stucco can be installed over framed wall construction that includes a solid backing such as Fiberboard, Gypsum Sheathing and Wood Based Sheathing. The product's adhesion properties and versatility make it the perfect basecoat when applied over concrete and masonry substrates.

Composition & Materials

SPEC MIX Stucco products are dry, proprietary mixes of cementitious materials, aggregates, sand and special admixtures. Manufactured throughout the United States and Canada using high tech blending equipment and following strict quality control procedures, the products are produced with raw materials from each geographic region.

Types & Sizes

SPEC MIX Stucco Products are packaged in 80 pound (36.3 kg) bags and 3000 pound (1360.8 kg) bulk bags for use with any SPEC MIX delivery system.

Benefits

- A state-of-the-art batching process and strict quality control procedures help ensure that the finished product complies with design and specification requirements
- Batch-to-batch consistency is maintained using dry sand to eliminate the bulking effect of moisture within the aggregate
- Portable SPEC MIX silos can be enclosed to permit construction in all climates
- Pallets and bulk bag containers are reusable and picked up whenever a new load of material is delivered to a site
- The SPEC MIX system helps eliminate the shoveling and heavy lifting associated with field mixing



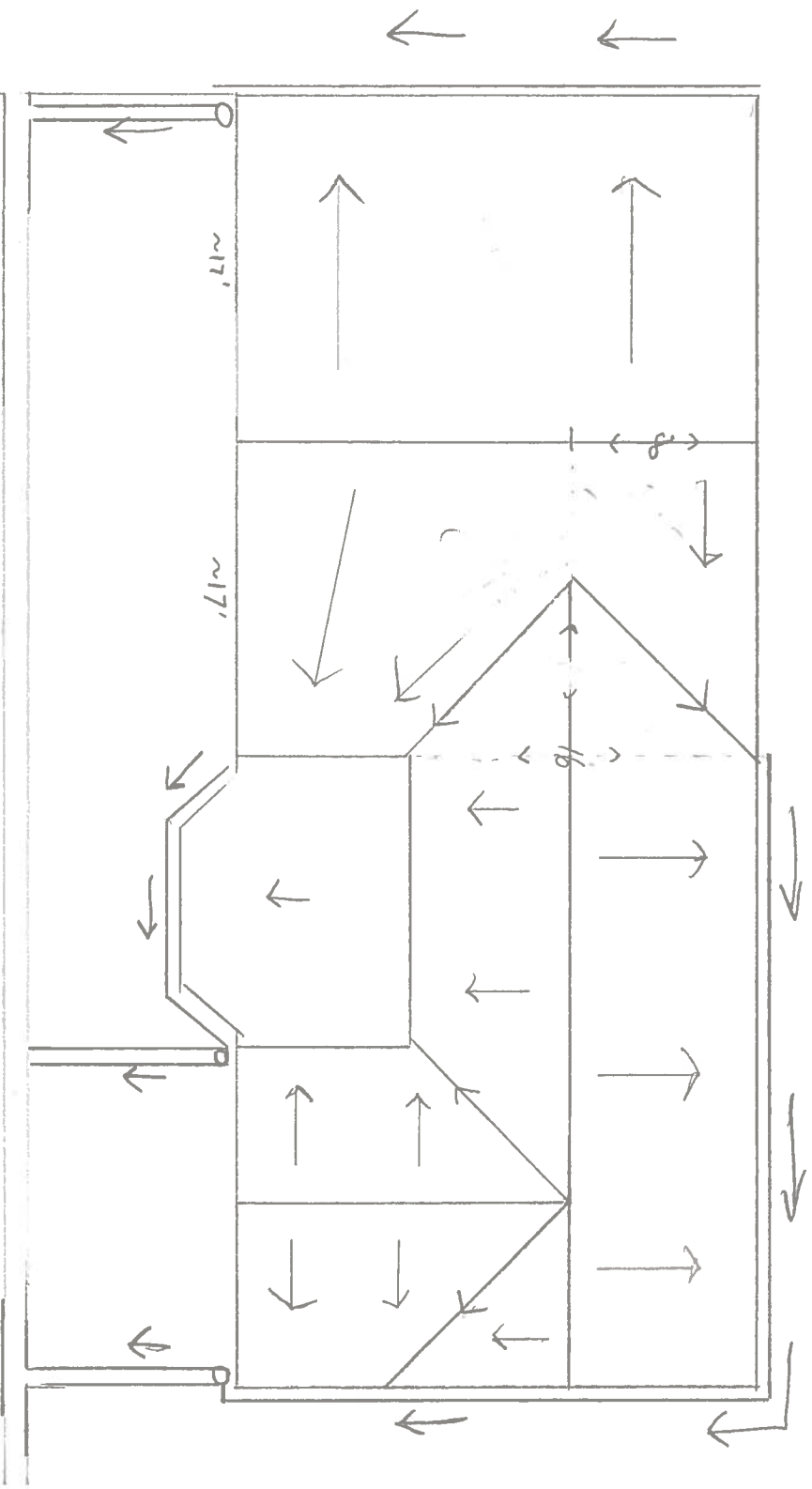
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W. 4th St. ↙ ↘

← SHAWNEE ST. →

N →



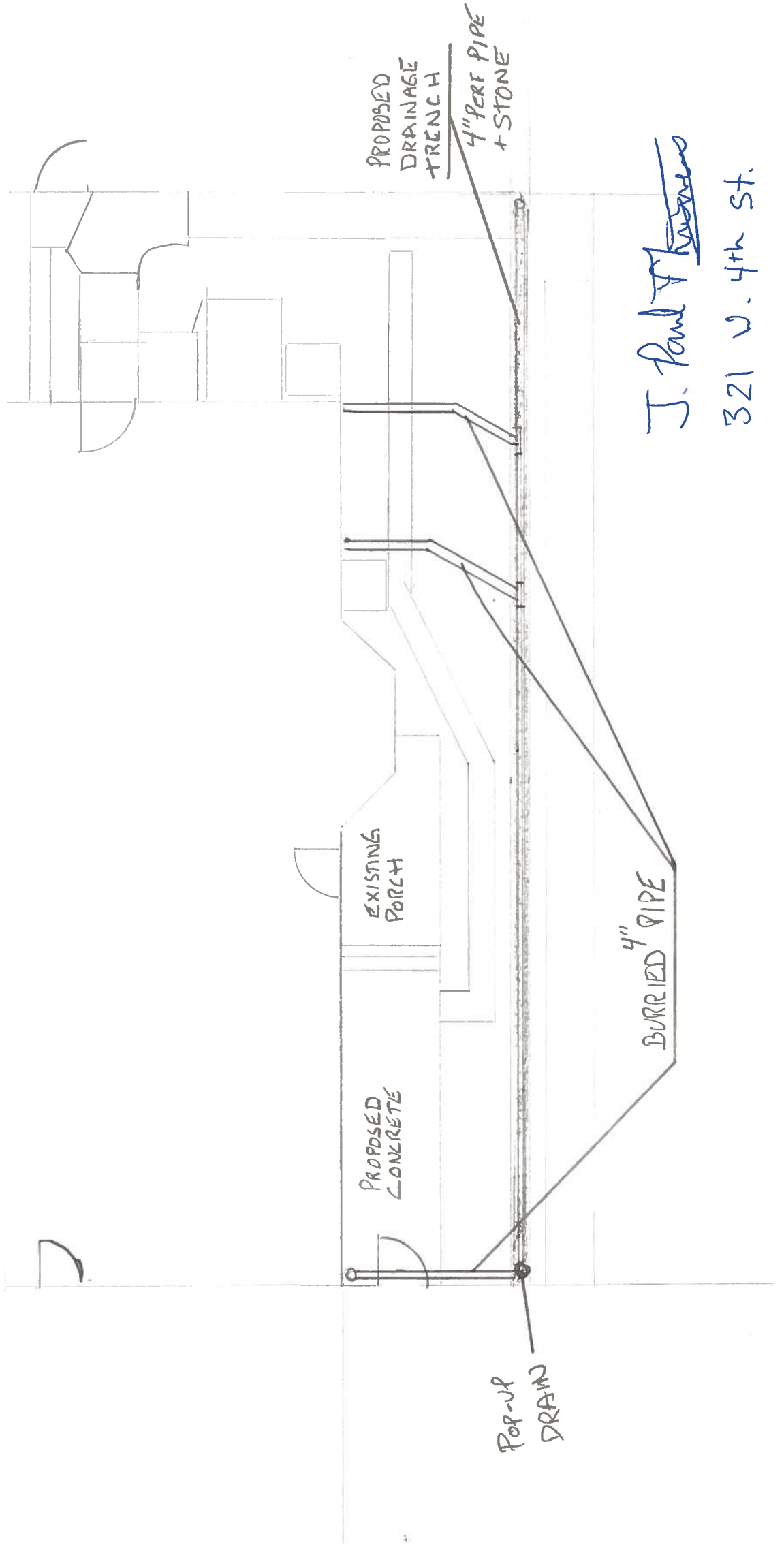
PROPOSED WATER FLOW

321 W 4th St.

J. Paul ~~Thomas~~

N →

← SAWNER ST →



← W. 4th St. →

J. Paul ~~Thompson~~

321 W. 4th St.